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1. (original) A process for preparing a polyamide by reacting a mixture which comprises a monomer which has a nitrile group and has at least one other functional group capable of forming a carboxamide group, and comprises water, in the presence of titanium dioxide as catalyst, which comprises using titanium dioxide whose BET surface area, determined to the German standard DIN 66 131 volumetrically by the multipoint method, is in the range from 5 to 35 m²/g.
2. (original) A process as claimed in claim 1, where the titanium dioxide has a BET surface area in the range from 15 to 35 m²/g.
3. (currently amended) A process as claimed in claim 1 ~~or 2~~, where the monomer has a nitrile group and, as at least one other functional group capable of forming a carboxamide group, has at least one group selected from the group consisting of nitrile group, carboxamide group, carboxylic acid group, ester group, and amino group.
4. (currently amended) A process as claimed in claim 1 ~~or 2~~, where the monomer has been selected from the group consisting of dinitrile, nitrilocarboxamide, nitrilocarboxylic acid, nitrilocarboxylic ester, aminonitrile, and mixtures of these.
5. (currently amended) A process as claimed in claim 1 ~~or 2~~,

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where the monomer is an aliphatic compound selected from the group consisting of alpha,omega-dinitrile, alpha,omega-nitrilocarboxamide, alpha, omega-nitrilocarboxylic acid, alpha,omega-nitrilocarboxylic ester, alpha,omega-aminonitrile, and mixtures of these.

6. (currently amended) A process as claimed in claim 1 ~~or 2~~, where the monomer has been selected from the group consisting of adiponitrile, 5-cyanovaleramide, 5-cyanovaleric acid, C₁-C₄-alkyl cyanovalerate, 6-aminocapronitrile, and mixtures of these.
7. (currently amended) A process as claimed in claim 1 ~~or 2~~, where the monomer has been selected from the group consisting of adiponitrile, 5-cyanovaleramide, 5-cyanovaleric acid, 6-aminocapronitrile, and mixtures of these.
8. (currently amended) A process as claimed in claim 3 ~~any of claims 3 to 7~~, where the monomer has been selected from the group consisting of dinitrile, nitrilocarboxamide, nitrilocarboxylic acid, nitrilocarboxylic ester, and mixtures of these and is used together with a diamine, the molar ratio of the monomer mentioned to the diamine mentioned being in the range from 0.9:1 to 1:0.9.
9. (original) A process as claimed in claim 8, where the diamine

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used comprises a compound selected from the group consisting of 1,2-diaminoethane, 1,3-diaminopropane, 1,4-diaminobutane, 1,5-diaminopentane, 2-methyl-1,5-diaminopentane, 1,6-diaminohexane, 1,7-diaminoheptane, 1,8-diaminooctane, 1,9-diaminononane, 1,10-diaminodecane, and mixtures of these.